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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/543,169	07/22/2005	Jouko Muona	47121-5015-00 (221889)	5477	
55694 7590 04/23/2009 DRINKER BIDDLE & REATH (DC)			EXAMINER		
1500 K STRE		WEEKS, GLORIA R			
SUITE 1100 WASHINGTO	ON, DC 20005-1209		ART UNIT	PAPER NUMBER	
			3721		
			MAIL DATE	DELIVERY MODE	
			04/23/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary 10/543,169 MUONA ET AL. Examiner Art Unit GLOBIAR WEEKS 3721

Application No.

Applicant(s)

		GLORIA R. WEEKS	3721					
	The MAILING DATE of this communication app	ears on the cover sheet wit	h the correspondence a	ddress				
Period fo	or Reply							
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY. Whence is a comparable provided by the provisions of 37 CFR 1.15. And the provision of time may be available under the provisions of 37 CFR 1.15. And the provision of 37 CFR 1.15. And th	ATE OF THIS COMMUNIC 16(a). In no event, however, may a re- rill apply and will expire SIX (6) MON1 cause the application to become AB.	ATION. ply be timely filed I'HS from the mailing date of this ANDONED (35 U.S.C. § 133).	. ,				
Status								
1)🛛	1) Responsive to communication(s) filed on 19 December 2008.							
2a)□	This action is FINAL. 2b)⊠ This	action is non-final.						
3)	Since this application is in condition for allowar	ice except for formal matte	ers, prosecution as to th	ne merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D.	11, 453 O.G. 213.					
Disposit	ion of Claims							
4)⊠	☑ Claim(s) <u>1-25</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	☐ Claim(s) 1-25 is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction and/or election requirement.							
Applicati	ion Papers							
9)□	The specification is objected to by the Examine	r.						
	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	Office Action or form F	TO-152.				
Priority ι	ınder 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).					
(a)	All b) Some * c) None of:							
	1. Certified copies of the priority documents	have been received.						
	2. Certified copies of the priority documents	have been received in Ap	oplication No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the International Bureau (PCT Rule 17.2(a)).							
* 8	See the attached detailed Office action for a list	of the certified copies not i	eceived.					
Attachmen	t(s)							

Attachment(s)

| Molico of References Cited (PTO-892) | 4 | Interview Summary (PTO-413) |
| Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper Nots/Mail Date. |
| Paper Nots/Mail Date. | Paper Nots/Mail Date.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.
3) Information Statecture Statement(s)-(PTO/SE/D8) 5) Notice of Informal Patent AF‡lication
Paper No(s)/Mail Date
6) Other:

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DETAILED ACTION

1. This action is in response to the remarks received on December 19, 2008.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

 Claims 1-15 and 21-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Nagely (USPN 3,547,205).

In reference to claims 1-15 and 21-25, Nagely et al. discloses a hydraulic system and method of operating a hydraulic system, comprising: a tank (figure 5); and a plurality of operationally separate hydraulic circuits having pressure fluid channels 126, 128, 130, 150, 152, 174, each hydraulic circuit having a hydraulic pump 120, 122, 124 generating power to each hydraulic circuit; at least one power unit 20, 80 that actuate each hydraulic pump 120, 122, 124; a plurality of hydraulic mining actuators 22, 24 connected to the hydraulic circuit; a main hydraulic circuit and at least one separate hydraulic circuit are connected yet powered by separate pumps 120, 122, 124, such that the power of the mining actuator(s) 22, 24 are arranged to be adjusted by adjusting means 134, 148 in connection with the pumps 120, 122, 124 for the purpose of adjusting the hydraulic power, speed, or flow generated by the pumps 120, 122, 124 of the separate hydraulic circuit (column 4 lines 14-54).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 16-20 rejected under 35 U.S.C. 103(a) as being unpatentable over Nagely (USPN 3,547,205) in view of Schivley, Jr. (USPN 5,449,047).

Regarding claims 16-18, Nagley discloses the claimed hydraulic system except for the provision of sensors that monitor the operation of the system. Schivley, Jr. teaches a hydraulic system including a control unit 100 that receives information from means of a sensor 110, where the information contributes to the monitoring of the volume flow from hydraulic pumps 102, 104, 106 in the hydraulic system (column 5 lines 41-52), such that the power of a mining actuator is arranged to be adjusted by adjusting means in connection with the pumps 102, 104, 106, in response to pressure sensing means, for the purpose of adjusting the hydraulic pressure, (which leads to calculation of power, force, and variables depicting the same) generated by the pumps 102, 104, 106. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the hydraulic system of Nagely to include sensor means as suggested by Schivley, Jr., since column 2 lines 22-25 state that such a modification results in higher drill productivity of the hydraulic circuit and better utilization of the drilling machine.

With respect to claims 19 and 20, Nagley discloses a hydraulic system and method of operating a hydraulic system, comprising: a tank (figure 5); a rock drill 64; and a plurality of operationally separate hydraulic circuits having pressure fluid channels 126, 128, 130, 150, 152,

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174, each hydraulic circuit having a hydraulic pump 120, 122, 124 generating power to each hydraulic circuit; at least one power unit 20, 80 that actuate each hydraulic pump 120, 122, 124; a plurality of hydraulic mining actuators 22, 24 connected to the hydraulic circuit; a main hydraulic circuit and at least one separate hydraulic circuit are connected yet powered by separate pumps 120, 122, 124, such that the power of the mining actuator(s) 22, 24 are arranged to be adjusted by adjusting means 134, 148 in connection with the pumps 120, 122, 124 for the purpose of adjusting the hydraulic power, speed, or flow generated by the pumps 120, 122, 124 of the separate hydraulic circuit (column 4 lines 14-54), but does not disclose at least one sensor in connection with the rock drill. Schivley, Jr. teaches a hydraulic system including a control unit 100 that receives information from means of a sensor 110, where the information contributes to the monitoring of the volume flow from hydraulic pumps 102, 104, 106 in the hydraulic system (column 5 lines 41-52), such that the power of a mining actuator is arranged to be adjusted by adjusting means in connection with the pumps 102, 104, 106, in response to pressure sensing means, for the purpose of adjusting the hydraulic pressure, (which leads to calculation of power, force, and variables depicting the same) generated by the pumps 102, 104, 106. It would have been obvious to one having ordinary skill in the art at the time of the invention to modify the hydraulic system of Nagely to include sensor means as suggested by Schiyley, Jr., since column 2 lines 22-25 state that such a modification results in higher drill productivity of the hydraulic circuit and better utilization of the drilling machine.

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Response to Arguments

 Applicant's arguments with respect to claims 1-25 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Refer to attachment for notice of references cited and recommended for consideration based on their disclosure of limitations related to the claimed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GLORIA R. WEEKS whose telephone number is (571)272-4473. The examiner can normally be reached on M-F 7am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rinaldi I. Rada can be reached on (571) 272-4467. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Other helpful telephone numbers are listed for applicant's benefit:

- Allowed Files & Publication (888) 786-0101
- Assignment Branch (800) 972-6382
- Certificates of Correction (703) 305-8309
- Fee Questions (571) 272-6400
- Inventor Assistance Center (800) PTO-9199
- Petitions/special Programs (571) 272-3282
- Information Help line 1-800-786-9199

/Gloria R. Weeks/ Examiner, Art Unit 3721

/Rinaldi I Rada/ Supervisory Patent Examiner, Art Unit 3721

April 23, 2009